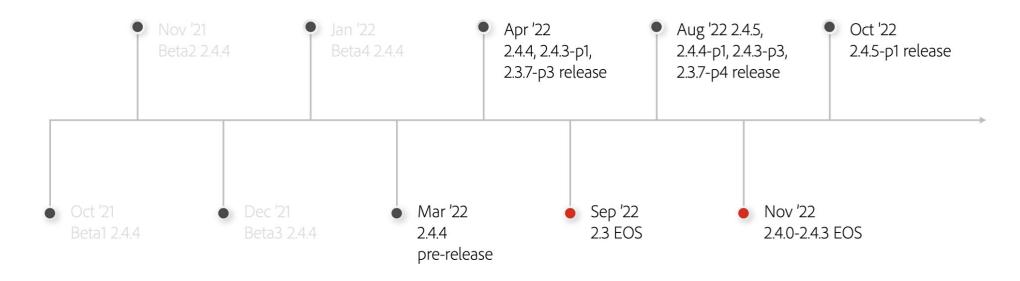


**Upgrade Compatibility Tool** 

Sergii Ivashchenko Pro Magento Meetup



### 2022 release and EOS schedule

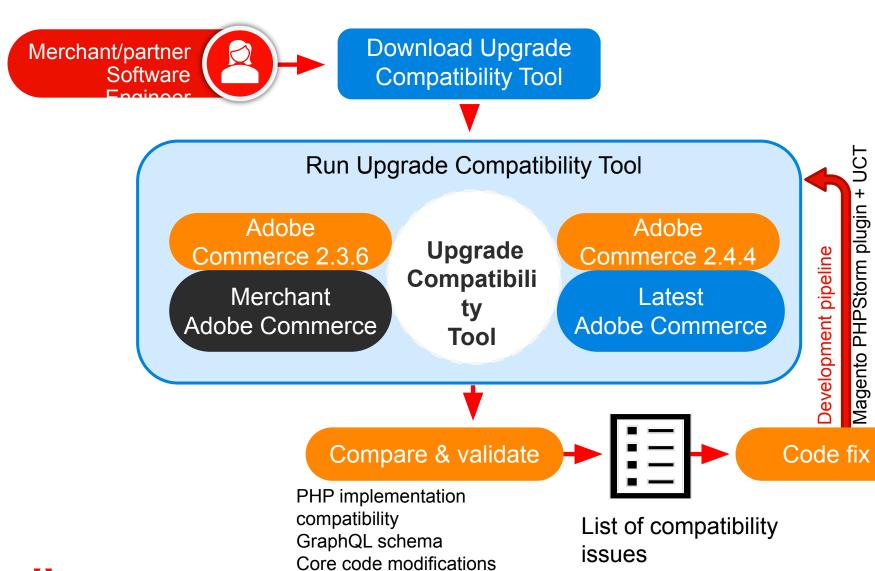


- Based on 2.3-2.4.3 EOS events, it is important to upgrade to version 2.4.4 or higher by November 2022
- In line with the Adobe Commerce lifecycle policy, versions 2.4.4 and 2.4.5 will receive quality support and security patches until Nov 2024
- https://experienceleague.adobe.com/docs/commerce-operations/upgrade-guide/overview.
   html



# **Upgrade Compatibility Tool**

# **Upgrade Compatibility Tool**



**Unified Static Tests** 

# Easier, faster and cheaper upgrades

- Estimate upgrades to any version
- Improve project quality and resolve breaking changes
- Use as part of CICD to proactively prevent issues from ever occurring
- Under active development with frequent improvements

Magento PHPStorm plugin

Development pipeline

Ready for Upgrade

#### **Validations**

- Removed core code usages
- References to non-API core code
  - under the risk of being changed of removed
- Deprecated code usage
  - incorrect, not supported and planned to be removed
- Additional static tests
  - Important rules from magento-coding-standard
  - compatibility, security, PHP 8.1 compatibility

```
* [ERROR][1121] Line 23: Extending from non API class 'Magento\Catalog\Model\Pr
* [ERROR][1328] Line 23: Implemented non API interface 'Magento\Catalog\Model\Pr
rface'

* [ERROR][1224] Line 56: Using non API constant 'Magento\Catalog\Model\Product\
* [ERROR][1524] Line 62: Using non API property 'Magento\Catalog\Model\Product\
* [ERROR][1524] Line 82: Using non API property 'Magento\Catalog\Model\Product\
* [ERROR][1429] Line 70: Call non API method 'Magento\Catalog\Model\Product\Cat
* [ERROR][1429] Line 77: Call non API method 'Magento\Catalog\Model\Product\Cat
File: /Users/sivashch/Projects/magento-tmp2/app/code/AppStore/FakeModule/Model/F
```

- \* [WARNING] [1131] Line 23: Extending from @deprecated class 'Magento\CatalogSea ception'
- \* [WARNING][1338] Line 23: Implemented @deprecated interface 'Magento\CatalogSe ace'
- \* [WARNING][1234] Line 56: Using @deprecated constant 'Magento\CatalogSearch\Mo IG\_ENGINE\_PATH'
- \* [WARNING][1534] Line 57: Using @deprecated property 'Magento\CatalogSearch\MopeConfig'
- \* [WARNING][1439] Line 58: Call @deprecated method 'Magento\CatalogSearch\Model' All'

File: /Users/sivashch/Projects/magento-tmp2/app/code/AppStore/FakeModule/Model/F

- \* [CRITICAL][1111] Line 22: Extending from nonexistent class 'Magento\Catalog\M
- \* [CRITICAL][1318] Line 22: Implemented nonexistent interface 'Magento\Catalog\
- \* [CRITICAL][1214] Line 35: Using nonexistent constant 'Magento\Catalog\Model\P \* [CRITICAL][1514] Line 37: Using nonexistent property 'Magento\Catalog\Model\P

### Reporting

- CLI report
  - Instant feedback
- JSON report
  - Makes integrations easier
- HTML report
  - Perfect for high-level evaluation of complex projects

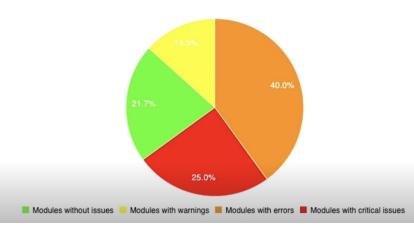
Current version	2.4.1
Target version	2.4.4-beta2
Modules that require update	78.33% (47/60)
Files that require update	20.30% (108/532)
Total critical issues	35
Total errors	194
Total warnings	103

#### **Diagrams**

#### Modules by issue severity

This chart shows a severity distribution by modules.

Each chart portion shows the percentage of modules which have issues of that level at most.



### Additional functionality and options

- Core code modification detection
  - Useful even for listing additional composer dependencies
- GraphQL schema comparison
  - Lists all the differences between two endpoints
- Options to filter results and display only breaking changes
  - Or the level of quality that is needed

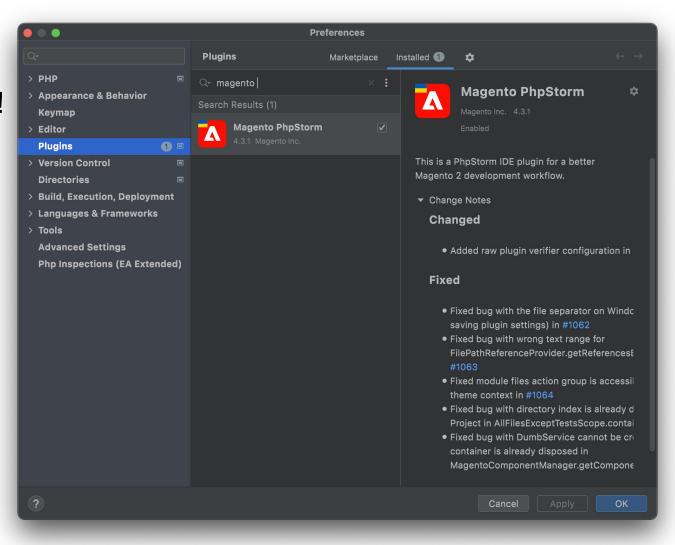
# A few things

- Upgrade Compatibility Tool requires Commerce composer key
- Currently UCT covers mostly PHP code, however, the project is in active development and we are working to extend the coverage

# PHPStrom Plugin

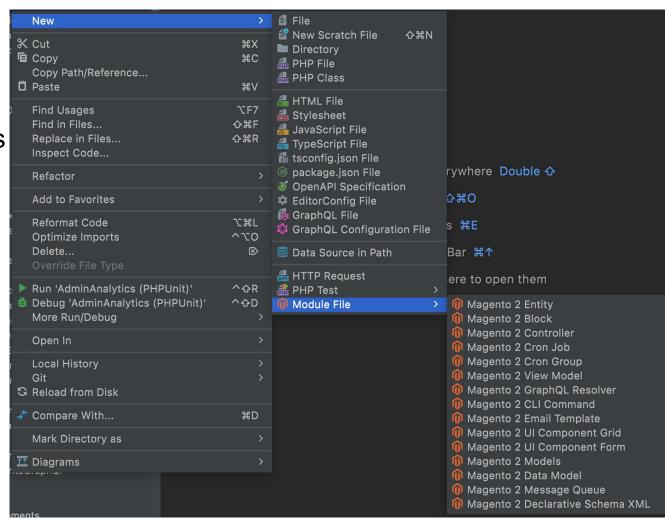
# The Project

- Turbocharged Magento development!
- Available on JetBrains marketplace
  - Possible to download from the website
  - Or via PHPStrom preferences
- Already installed 120 thousand times
- Great feedback



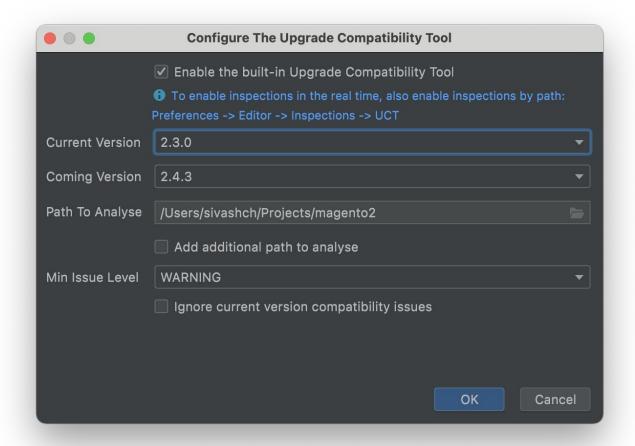
# **Functionality**

- Code generation
  - Module and lots of common files templates
- Code inspections
  - Ensures xml and php are on the same page
- Improved referencing, mapping and navigation
- Helps to work with php, js, xml and even graphqls files



### **UCT & PHPStorm Plugin**

- Run configuration for Upgrade Compatibility Tool CLI
  - Save the setting once and work on upgrde
- Upgrade Compatibility code Inspections
  - Remove, deprecated and non-api code detection
  - Flexible configuration and fast execution, 3 ways of launching as a bonus



# Let's collaborate!

### 



Utilize

- Install the plugin from PHPStrom marketplace (and stay tuned for updates)
- Download UCT via composer (requires Adobe Commerce keys)



### Communicat

e

- Magento Open Source slack workspace
- #upgrade-compatibility-tool
- #phpstorm-plugin



### **Participate**

- Contribute static tests to the magento-coding-standard
- Join the completely community driven PHPStorm Plugin project

### Screenshot this!

- Slack self signup: <a href="https://www.adobe.io/open/magento/slack">https://www.adobe.io/open/magento/slack</a>
  - #upgrade-compatibility-tool and #phpstorm-plugin channels
- PHPStorm Plugin
  - https://github.com/magento/magento2-phpstorm-plugin/wiki I'd check the wiki ;)
  - <u>https://plugins.jetbrains.com/plugin/8024-magento-phpstorm</u> (or Preferences -> Plugins -> Marketplace)
- Upgrade Guide (loads of useful info including UCT docs):
  - https://experienceleague.adobe.com/docs/commerce-operations/upgrade-guide/overview.html

